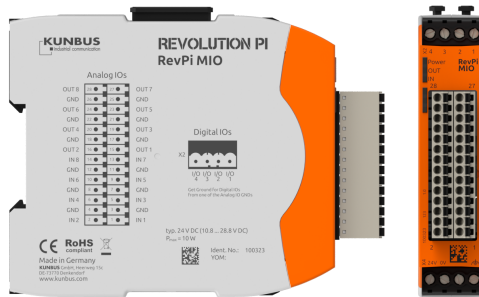


Technical Data

RevPi MIO



Item No.: 100323

Standard	EN 61131-2
Housing dimensions (H × W × D)	96 × 22.5 × 110.5 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 115 g
Protection class	IP20
Power supply	24 V DC (10.8 ... 28.8 V DC)
Maximum power consumption	10 W (system)
Approved operating temperature	-20 ... +55 °C
Approved storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	8 analog inputs 8 analog outputs 4 digital inputs/outputs
Analog Inputs	
Measurement range	0 ... 10 V DC
Input impedance	• >900 kΩ ^[1] • 20 kΩ ^[2]
Max. overall input error	±0.3 % (of full-scale range)
Sample rate	8 ms / 125 Hz
Resolution	1 mV (process image)

Galvanic isolation 24 V supply	Yes ^[1] No ^[2]
Analog input modes	Analog Input Logic Level Input
Analog Outputs	
Output voltage	0 ... 10 V DC
Max. output current	10 mA (10 V @ 1 kΩ)
Max. overall output error	±0.3 % (of full-scale range)
Data control rate	1 PiBridge cycle
Resolution	4.48 mV
Galvanic isolation 24 V supply	• Yes ^[1] • No ^[2]
Analog output modes	Analog Output, Logic Level Output
Digital Inputs/Outputs	
Description	<ul style="list-style-type: none"> • Level detection (threshold 1 V)^[1] • Type 3 inputs according to EN 61131-2^[2]: <ul style="list-style-type: none"> ◦ Threshold high → low: 7 V ◦ Threshold low → high: 10 V ◦ Input current 2.4 mA
GPO [PIN OUT]	<ul style="list-style-type: none"> • $U_{high} = 22 \text{ V}$ (with $I_{high} < 20 \text{ mA}$)^[1] • $U_{high} =$ positive supply voltage, max. 200 mA^[2] • Short-circuit proof • Feedback via GPI [PIN IN] (error message possible)
Digital modes	Digital Input Digital Output PWM Input PWM Output Pulse Input Pulse Output Encoder Input
EMC interference emission	<ul style="list-style-type: none"> • According to EN 61000-6-4 (industrial environments)^[1] • According to EN 61000-6-3 (residential environments)^[2]
EMC immunity	According to EN 61000-6-2; For cable lengths over 3 m, a shielded cable is required for the analog I/Os.
Optical display	3 status LEDs (bi-color)
Conformity	CE, RoHS



<https://revolutionpi.com/shop/en/digital-analog-io-module-revpi-mio>

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Errors and omissions excepted.

[1] Applies up to product revision 1.1 (see marking on front of housing).

[2] Applies to product revision 1.2 (see marking on front of housing).